PATENT COOPERATION TREATY DECEIVED

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From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY MAY **0 1** 2006 To: MICHAEL J. MALLIE BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP BLAKELY, SOKOLOFF, TAYLOFT LETREMAN OUR OF TRANSMITTAL OF 12400 WILSHIRE BOULEVARD LOS ANGELISTERNATIONAL PIRELIMINARY 7TH FLOOR LOS ANGELES, CA 90025 REPORT ON PATE NTABILITY NO DOCKETING REQUIRED (Chapter II of the Patent Cooperation Treaty) (PCT Rule 71.1) NA Date of mailing (day/month/year) 27 APR 2006 Applicant's or agent's file reference IMPORTANT NOTIFICATION International application No. International filing date (day/month/year) Priority date (day/rnonth/year) PCT/US02/24267 29 July 2002 (29.07.2002) 25 April 2002 (25: 04:2002) -Applicant

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the
 international preliminary report on patentability and its annexes, if any, established on the international
 application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

SYNPLICITY

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the IPEA/US

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Form PCT/IPEA/416 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		~~~		
2986.P029	FOR FURTHER A	CTION	See Form PCT/IPEA/416	
International application No. International t		(day/month/year)	Priority date (day/month/year)	
PCT/US02/24267 29 July 2002 (29.07.200			25 April 2002 (25.04.2002)	
International Patent Classification (IPC)	or national classification a	and IPC		
IPC: H01L 27/10 (2006.01) USPC: 257/207,208,211 Applicant		· · · · · · · · · · · · · · · · · · ·		
SYNPLICITY				
1. This report is the internat			lished by this International Preliminary	
Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of sheets, including this cover sheet.				
3. This report is also accompanied by ANNEXES, comprising:				
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This report contains indications relating to the following items:				
Box No. I Bas	sis of the report			
Box No. Il Pri	prity			
1	n-establishment of opinion with regard to novelty, inventive step and industrial licability			
Box No. IV Lac	k of unity of invention			
	soned statement under Article 35(2) with regard to novelty, inventive step or istrial applicability; citations and explanations supporting such statement			
Box No. VI Cer	tain documents cited			
Box No. VII Cer	tain defects in the international application			
Box No. VIII Cer	tain observations on the international application			
Date of submission of the demand		Date of completion of this report		
03 November 2003 (03.11.2003)		11 April 2006 (11.04.2006)		
Name and mailing address of the IPEA/ US Mail Stop PCT, Aug. IPEA/IS		Authorized officer Rhondo Fill		
Commissioner for Patents		David Nelms		
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Form PCT/IPEA/409 (cover sheet)(April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/US02/24267

Box No. I Basis of the report	
1. With regard to the language, this report is based on:	
the international application in the language in which it was filed.	
a translation of the international application into English, which is the language of a translation furnished for the purposes of:	
international search (under Rules 12.3 and 23.1(b))	
publication of the international application (under Rule 12.4(a))	
international preliminary examination (under Rules 55.2(a) and/or 55.3(a))	
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):	
the interpational application as originally filed/furnished	
the description:	
pages 1-17 as originally filed/furnished pages* NONE received by this Authority on	
pages* NONE received by this Authority on	
the claims:	
pages 18-23 as originally filed/furnished	
pages* NONE as amended (together with any statement) under Article 19	
pages* NONE received by this Authority on	
pages* NONE received by this Authority on	
the drawings:	
pages 1/10-10/10 as originally filed/furnished pages* NONE received by this Authority on	
pages* NONE received by this Authority on	
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
3. The amendments have resulted in the cancellation of:	
the description, pages_none	-
the description, pages_none the claims, Nos_none the drawings, sheets/figs_none the sequence listing (specify):_none	
the drawings, sheets/figs_none	
the sequence listing (specify):none	
any table(s) related to the sequence listing (specify): none	
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	
the description, pages	-
the claims, Nos	
the drawings, sheets/figs	-
the sequence listing (specify):	
any table(s) related to the sequence listing (specify):	The second second
* If item 4 applies, some or all of those sheets may be marked "superseded."	Wilder Const.
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US02/24267

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims 2-6,9-15,17-19 and 20

Claims 1,7,8,16 and 18

NO

Inventive Step (IS)

Claims 2-3,5,9,10,12 and 17

YES

Claims 1,4,6-8,11,13-16 and 18-20

Industrial Applicability (IA)

Claims 1-20

Claims NONE

NO

2. Citations and Explanations (Rule 70.7)

Claims 1, 7-8, 16 and 18 lack novelty under PCT Article 33(2) as being anticipated by Krumm et al. (US 4,353,040). Krumm et al. discloses an integrated circuit device (Figures 1A-1B) comprising:

a) a plurality of signal lines S disposed within a substrate;

b) a power grid disposed on said substrate and comprising; a plurality of power lines V having a first thickness; and a plurality of ground lines G having said first thickness, said power grid for supplying power and ground to circuitry of said substrate; and

c) a shield mesh disposed on said substrate and comprising of a plurality of power lines V(first lines in claim 18) having a second thickness; and a plurality of ground lines G (second lines in claim 18) having said second thickness, wherein respective signal lines of said plurality of signal lines are disposed between a respective power line of said shield mesh and a respective ground line of said shield mesh, said shield mesh for reducing the effects of electronic cross-talk between nearby signal lines of said plurality of signal lines.

With respect to claims 7 and 16, said electronic cross-talk comprises capacitive and inductive coupling.

Claims 4, 6, 11, 13-15, 19 and 20 lack an inventive step under PCT Article 33(3) as being obvious over Krumm et al. (US 4,353,040).

Krumm et al. further discloses said power and ground lines of said shield mesh are alternatively disposed and parallel to each other within conductor planes (1-7) of said substrate. Krumm et al. does not speciffically disclose the conductor planes formed of metal. However, metal such as copper, aluminum are conventional materials known in the art to form conductors for low resistivity. Therefore, it would have been obvious to one of ordinary skill in the art to form conductors of metal to increase conductivity of the conductors.

With respect to claim 6, 13 and 20. Krumm et al. discloses the circuit, wherein said power and ground lines of said shield mesh are alternatively disposed in a first direction parallel to each other within a first metal layer of said substrate and wherein said power and ground lines of said shield mesh are also alternatively disposed in a second direction parallel to each other within a second metal layer of said substrate, said second metal layer being underneath said first metal layer and wherein said first and second directions are 90 degrees apart.

With respect to claim 14, third lines of said first metal layer and third lines of said second metal layer are coupled together using first connections (Figure 3).

With respect to claim 15, fourth lines of said first metal layer and fourth lines of said second metal layer are coupled together using second connections (Figure 3).

Form PCT/IPEA/409 (Box No. V) (April 2005)